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Path sharing and predicate evaluation for high-performance XML filtering

[PDF] from psu.edu

Y Diao, M Altinel, MJ Franklin... - ACM Transactions on ..., 2003 - portal.acm.org
... highly skewed, with a small number of very long candidate lists that do not provide much selectivity. ...
As experi- mental results in Altinel and Franklin [2000] show, this additional cost is far outweighed ...
a document arrives at the filtering en- gine, it is run through an XML Parser that ...
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Efficient processing of XML twig queries with OR-predicates

[PDF] from psu.edu

H Jiang, H Lu... - Proceedings of the 2004 ACM SIGMOD ..., 2004 - portal.acm.org
... indexes can significantly improve the performance for matching twig queries with OR-predicates,
especially when ... can evaluate query Q2 as two separate AND-twigs: /dblp/paper[title='XML']//author
/dblp ... we may scan same data multiple times, incurring more I/O and CPU cost. ...
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Implementing a scalable XML publish/subscribe system using relational database systems

[PDF] from psu.edu

F Tian, B Reinwald, H Pirahesh, T Mayr... - Proceedings of the ..., 2004 - portal.acm.org
... The cost analysis and several optimizations are introduced in Section 4. Experimental results
are ... and middle columns are used to match tag paths in published XML messages against ...
predicates of the conjunction are re-ordered so that the more selective predicates are pulled ...
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[PDF] Efficient filtering of XML documents for selective dissemination of information

[PDF] from upenn.edu

M Altinel... - ... of the 26th International Conference on ..., 2000 - seas.upenn.edu
... "[...]" denote filter expressions • Eg //product[price/msrp<300]/name • Selects name elements
of the XML document ... Problems? • Inefficient for many situations in an XML doc as the 1st element
usually have poor selectivity. • Some CL will be very long as compared to ...
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Cost-based optimization in DB2 XML

[PDF] from psu.edu

A Balmin, T Eliaz, J Hornibrook, L Lim... - IBM Systems ..., 2010 - ieeexplore.ieee.org
... that might satisfy those predicates; that is, nodes satisfying the individual predicates must descend ...
Fanout is used in conjunction with the traditional notion of selectivity in determining the ... Statistics
collection" describes the set of statistics used to make XML cost and cardinality ...
Cited by 27 - Related articles - All 10 versions

Benefits of path summaries in an **XML** query optimizer supporting multiple access methods

A Barta, MP Consens... - Proceedings of the 31st ..., 2005 - portal.acm.org

... The advantage of using this strategy occurs in the case of **selective predicates** on one of the leaf ... However, in the **XML** query c summaries can be used not only existing schemas for a ... The latter optimization str data statistics and (simple) **cost**-based h order to compute an efficient ...

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Timber: A native **XML** database

[PDF] from psu.edu

HV Jagadish, S Al-Khalifa, A Chapman... - The VLDB journal, 2002 - Springer

... maintained for **cost** estimation purposes are novel, and are described in Sect ... For example, in a bibliographic **XML** tree, consider a particular book sub-tree, with nested (multiple) author sub ... We should be able to impose a **predicate** of our choice on the first author, on every author ...

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Cost modeling and estimation for OLAP-**XML** federations

[PDF] from psu.edu

D Pedersen, K Riis... - Data Warehousing and Knowledge ..., 2002 - Springer

... The query evaluation time will depend eg on the aggregation level and **selectivity** of any selections in a query. ... The **cost** formula distinguishes between two types of **XML** query results: Those that have been inlined in some **predicate** and those that have not been inlined in ...

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Approximate **XML** query answers

[PDF] from psu.edu

N Polyzotis, M Garofalakis... - Proceedings of the 2004 ..., 2004 - portal.acm.org

... Generating approximate answers is a **cost**-effective solution for offsetting the high evaluation **cost** of **XML** queries. ... Note that the problem of effi- cient **XML** summarization also arises in the context of **selectivity** estimation, where the synopsis is only used to estimate the size ...

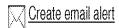Cited by 86 - Related articles - All 27 versions

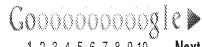## Stream processing of XPath queries with **predicates**

[PDF] from psu.edu

AK Gupta... - Proceedings of the 2003 ACM SIGMOD ..., 2003 - portal.acm.org

... to post on servers or to redistribute to lists, requires prior speci£c permission and/or a fee. ... limitation of this approach is that it requires direct access to the **XML** document: the ... evaluation order is decided by the optimizer (usually starting with the most **selective predicate**), and 419 ...

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